



MATH 094 – Intermediate Algebra Refresher
Pre-Fall 2009 2 Credits

Contact Information:	Megan Luce CC185 (425) 352-8270 mluce@cascadia.edu Office Hours: 11:45 - 12:30 Daily
Schedule:	Tuesday, September 8 through Thursday, September 17 Class Meets Daily, 9:00 – 11:30 in Room 240
Materials:	<ul style="list-style-type: none">• Angel, Allen R. <i>Elementary and Intermediate Algebra for College Students, Third Edition</i>. Upper Saddle River, New Jersey: Pearson Education, Inc., 2008. This is the textbook currently used in Cascadia MATH 085 and 095 classes. While it is not required for this refresher course, you may find it an extremely useful resource in completing the online assessments and preparing to retake the COMPASS test.• Scientific Calculator (no cell phones) Optional: Graphing Calculator – recommendation is a TI-84
Prerequisites:	Completion of MATH 085 with a grade of 2.0 or higher or placement by testing into MATH 095; and completion of ESL 060 or EFUND 040; or placement into ENGL 080 or above.
Course Description:	This course is a fast-paced condensed version of MATH 095 designed for students who only need a refresher of Intermediate Algebra topics in order to retest and place into college level math. Students who placed into college level math may also take this course in order to refine skills which are essential for successfully completing their next math class. In particular, students who plan to enroll next in MATH&141 may find this class helpful. Students may retake the COMPASS test at the end of this course in order to determine their new placement. Grading for this course is pass/fail only. NOTE: Credits for this course are not transferable, nor do they apply to any college degree or certificate.
Course Outcomes:	<ul style="list-style-type: none">• (LA) Perform algebraic manipulations at a level that allows success in higher-level math classes.• (CT) Demonstrate facility in working with abstract symbols and reasoning• (CO) Compare, convert and create in words, graphs and formulas.• (IN) Engage in work, study, and conversation on the topics of algebra with colleagues
Criteria:	<ul style="list-style-type: none">• (IN, CT) Use functions to express relations between independent and dependent variables, model authentic (real-world) problems, and analyze the reliability and validity of these relations and models• (CT) Develop competency in rational, radical, exponential, logarithmic expressions, equations and functions, and systems of equations.• (LA, IN) Investigate functions represented graphically, algebraically, numerically, geometrically and verbally in real world settings.• (CO) Listen, speak and write using mathematical vocabulary, notation, and graphical expression.• (CT, LA) Demonstrate use of rule-based thinking and development of logical approaches

- to problem solving
- (CT, LA) Demonstrate proficiency in introductory algebra tools in the analysis of appropriate problems.
- (IN, CO) Participate in interdisciplinary groups to solve real-world problems.
- (LA, CT) Express and approach problem solving using and integrating various threads of mathematics.

Expectations: For every 1 hour of class time at Cascadia, there is an expectation that you do approximately 2 hours of work outside of class. This means that you should expect to do about 5 hours of math outside of class daily during this course (for a total of 7.5 hours a day). Much of this work will be self-guided, using your own resources. The amount that you choose to put into this class will directly impact the likelihood that you place higher when you retake the COMPASS exam.

Grading: Grading for this course is pass/fail. Completion of all in-class quizzes and online assessments with grades of 60% or higher will result in a passing grade.

Online Assessments: Daily assessments will be completed online through a website called WAMAP (Washington Mathematics Assessment and Placement). You need to register for this course through the site. The site address is www.wamap.org, and you first need to register as a new student unless you have registered into WAMAP from a previous class. You will be asked to submit a user name and a password. These are unique to you and don't need to follow any particular format. After you have registered, you need to login with your username and password and enroll in the course. The course ID is **1549** and enrollment key is **cascadia**. Online assessments must be completed on time. Late assessments will not be accepted.

In-class Assessments: There will be daily in-class quizzes. There will be no make-up quizzes for students who are not in class. Your lowest in-class quiz score will be dropped.

Schedule:

Day	Date	Topics and Online Assessments – each online assessment is due by the next class period
Tues	9/8	Diagnostic Test – Beginning of Course Functions (8.2–8.4, 13.1)
Wed	9/9	Linear Systems (9.1–9.3, 9.5)
Thurs	9/10	Linear Inequalities (10.1-10.2)
Fri	9/11	Roots, Radicals, and Rational Exponents (11.1-11.3) Arithmetic with Radicals (11.4-11.5)
Mon	9/14	Radical Equations (11.6) Complex Numbers (11.7)
Tues	9/15	Quadratic Equations (12.1-12.5)
Wed	9/16	Exponentials and Logarithms (13.2-13.4, 13.6)
Thurs	9/17	Review and Final Questions Post Course Assessment

Notes:

- Section numbers refer to the text by Angel, Allen R. ***Elementary and Intermediate Algebra for College Students, Third Edition***. Upper Saddle River, New Jersey: Pearson Education, Inc., 2008.
- This schedule is subject to change at the instructor's discretion.